(15)

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Detailed Estimated for Improvements to RCC Drain & Concrete roads at Shettyhalli bad reaches, in Ward No-12, in Shettyhalli Sub Division

Est .Cost Rs. 99.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB-2-2.2 Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(a)/ 2.3.5, Page No. 5/ Item No. 2.3/ PWD SR 2013-14	Cum							
	near Kalatalkies area & Shastri Layout for **CC road**		1	115.00	4.20	0.25	120.75		
			1	87.00	4.00	0.25	87.00		
			1	110.00	4.00	0.25	110.00		
			1	130.00	3.70	0.25	120.25		
	For Road Cutting - Kalatalkies mainroad		1	1100.00	0.70	0.90	693.00		
			1	200.00	0.70	0.90	126.00		
			1	55.00	5.00	0.45	123.75		
			1	75.00	3.50	0.45	118.13		
			1	55.00	3.40	0.45	84.15		
			1	35.00	3.50	0.45	55.13		
			1	25.00	3.20	0.45	36.00		
			1	10.00	3.20	0.45	14.40		
							~~1688.55~~	151.74	256221
	Basic Rate	140.50					1688.55		
	Area Weightage 8%	11.24							
	Total	**151.74**							
2	KSRRB 300 - Excavation and removal of silt or silt mixed with sand in slussy condition from cannel beg, including disposal of the same in soil bank ion cannel the embackment in layer as directed extc, complete with intial lead upto 50 mtr and all lift. (P.129/I.51, MISR 2013-14)	Cum							
			2	650.00	0.60	0.45	351.00		
							351.00	107.00	37557
	Basic Rate	107.00							
3	Removing B.S.Slab of drain and stacking. Page No. 28/ Item No. 5.32/ PWD SR 2013-14	Sqm							

	Covering slabs		2	900.00		0.90	1620.00		
							1620.00		
	Missed Qty 15%						243.00		
							1377.00	49.18	**67726**
	Basic Rate	46.40							
	Area Weightage 6%	2.78							
		49.18							
4	Refixing stone slabs of drains and pointing in CM (1:3). Page No. 28/ Item No. 5.33/ PWD SR 2013-14	Sqm							
	Qty vide item no-4						**1377.00**	68.74	94656
	Basic Rate	64.85							
	Area Weightage 6%	3.89							
		68.74							
5	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical Specification. MORTH Specification No. 304. Page No. 225/ Item No. 27.17/ PWD SR 2013-14	Cum							
			1	1100.00	0.70	0.60	462.00		
			1	200.00	0.70	0.60	84.00		
							546.00	2098.44	1145748
	Basic Rate	1,943.00							
	Area Weightage 8%	155.44							
	Total	**2,098.44**							
6	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220 kgs. using 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregate @ 0.465cum machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS . 4.1, 4.2, Page No 12/ Item No. 4.2/ PWD SR 2013-14	Cum							
	Shastri Layout for **CC road**		1	115.00	4.20	0.15	72.45		
			1	87.00	4.00	0.15	52.20		
			1	110.00	4.00	0.15	66.00		
			1	130.00	3.70	0.15	72.15		
							262.80	4497.12	1181842
	Basic Rate	4,164.00							
	Area Weightage 8%	333.12							
	Total	**4,497.12**							

7	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 19/ Item No. 4.48.1/ PWD SR 2013-14	Cum							
	Shastri Layout for **CC road**		1	115.00	4.20	0.10	48.30		
			1	87.00	4.00	0.10	34.80		
			1	110.00	4.00	0.10	44.00		
			1	130.00	3.70	0.10	48.10		
							175.20	6464.88	1132647
	Basic Rate	5,986.00							
	Area Weightage 8%	478.88							
	Total	**6,464.88**							
8	KSRRB M2600-3 (II) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per Drawing & Technical Specification. Complete as per Specifications. MORTH Specification no. 2605 Page No. 251/ Item No. 31.3/ PWD SR 2013-14	m							
			20				**20.00**	137.16	2743
	Basic Rate	127.00							
	Area Weightage 8%	10.16							
	Total	**137.16**							
9	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.	Sqm							
	Missing Slabs		138	0.60	0.90		74.52		
	Approved Rate of Precast slab	1963.60							
	Data rate for precast slab of 100MM thick						**74.52**	1963.60	146327
10	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete of size 450x200x400 mm. Page No. 28/ Item No. 5.29.1/ PWD SR 2013-14	No							
	Missing						100.00		
	Basic Rate	293.00					**100.00**	316.44	31644
	Area Weightage 8%	23.44							
	Total	**316.44**							

11	KSRB 15.19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 131/ Item No. 15.80/ PWD SR 2013-14	Cum							
	missing Kerb		1	90.00		0.40	36.00		
							36.00	23.76	**855**
	Basic Rate	22.00							
	Area Weightage 8%	1.76							
	Total	**23.76**							
12	KSRRB M 800.1. Painting two cots after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8.Page No. 195/ Item No. 24.1/ PWD SR 2013-14	Cum							
	For Kerb		1	90.00		0.40	36.00		
							36.00	51.84	**1866**
	Basic Rate	48.00							
	Area Weightage 8%	3.84							
	Total	**51.84**							
13	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 175/ Item No. 21.2/ PWD SR 2013-14	Sqm							
	Kala Talkies Main road		1	1100.00	(6.5+7.2)/ 2		7535.00		
			1	200.00	5.00		1000.00		
							8535.00	2.59	22123
	Basic Rate	2.40							
	Area Weightage 8%	0.19							
	Total	**2.59**							

14	KSRRB M400-6.1. Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per Specifications. A. Plant Mix Method. close graded granular sub-base Material as per 400-1. For Grading – II Material.. Page No. 167/ Item No. 20.4.1/ PWD SR 2013-14	Cum							
	Kala Talkies Main road		1	1100.00	0.70	0.15	115.50		
			1	200.00	0.70	0.15	21.00		
	Cross roads		1	55.00	5.00	0.15	41.25		
	Damaged portion		1	75.00	3.50	0.15	39.38		
			1	55.00	3.40	0.15	28.05		
			1	35.00	3.50	0.15	18.38		
			1	25.00	3.20	0.15	12.00		
			1	10.00	3.20	0.15	4.80		
	Basic Rate	940.00					**280.35**	1015.20	284611
	Area Weightage 8%	75.20							
	Total	**1,015.20**							
15	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications. MORTH Specification No. 406 Page No. 170/ Item No. 20.18/ PWD SR 2013-14	Cum							
	Kala Talkies Main road		1	1100.00	0.70	0.25	192.50		
			1	200.00	0.70	0.25	35.00		
			1	55.00	5.00	0.25	68.75		
			1	75.00	3.50	0.25	65.63		
			1	55.00	3.40	0.25	46.75		
			1	35.00	3.50	0.25	30.63		
			1	25.00	3.20	0.25	20.00		
			1	10.00	3.20	0.25	8.00		
	Basic Rate	1,038.00					**467.25**	1121.04	523836
	Area Weightage 8%	83.04							
	Total	**1,121.04**							

16	KSRRB 500-4: Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C-70 or any other bitumen mixed with diesel at 10kg per 10sqm heated in bitumen boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries Complete as per Specifications, low porosity Page No. 175/ Item No. 21.4.1/ PWD SR 2013-14	Sqm							
	Kala Talkies Main road		1	1100.00	0.70		770.00		
			1	200.00	0.70		140.00		
			1	55.00	5.00		275.00		
			1	75.00	3.50		262.50		
			1	55.00	3.40		187.00		
			1	35.00	3.50		122.50		
			1	25.00	3.20		80.00		
			1	10.00	3.20		32.00		
	Basic Rate	74.80					**1869.00**	80.78	150985
	Area Weightage 8%	5.98							
	Total	**80.78**							
17	KSRRB M500-10: Tack coat:- Providing and laying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/Granular surface cleaned with mechanical broom Complete as per specifications, MORTH Specification No. 503 using bitumen emulsion Page No. 176/Item No. 21.10.1/ PWD SR 2013-14	Sqm							
	Kala Talkies Main road		1	1100.00	(5.5+7.2)/ 2		7535.00		
			1	200.00	5.00		1000.00		
							8535.00	11.99	102318
	Basic Rate	11.10							
	Area Weightage 8%	0.89							
	Total	**11.99**							

18	KSRRB M500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75 mm compacted thickness with 3.3% bitumen but excluding cost of primer/ tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. With 80/100 Grade bitumen Page No. 176/ Item No. 21.11.1/ PWD SR 2013-14	Cum							
	Kala Talkies Main road		1	1100.00	0.70	0.05	38.50		
			1	200.00	0.70	0.05	7.00		
			1	55.00	5.00	0.05	13.75		
			1	75.00	3.50	0.05	13.13		
			1	55.00	3.40	0.05	9.35		
			1	35.00	3.50	0.05	6.13		
			1	25.00	3.20	0.05	4.00		
			1	10.00	3.20	0.05	1.60		
	Basic Rate	6,154.00					**93.45**	~~6646.32~~	621099
	Area Weightage 8%	492.32							
	Total	**6,646.32**						6646.32	
19	KSRRB M500-19: Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 5.4 to 5.6% of mix and filler, Transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. 30-45mm compacted thickness (Grading II) with 6% Bitumen 80/100 grade using 40-60 HMP. Page No. 179/ Item No. 21.22.3/ PWD SR 2013-14	Cum							
	Kala Talkies Main road		1	1100.00	(6.5+7.2)/2	0.04	301.40		
			1	200.00	5.00	0.04	40.00		
	Basic Rate	10,652.00					**341.40**	11504.16	3927620
	Area Weightage 8%	852.16							
	Total	**11,504.16**							
20	KSRRB 400-1.3: Carriage of mixed materials 10 Kms. For items of Sl.no 1.c) rs 5.20 per cum/km Page no 186/ PWD SR	Cum							

							468.60	56.16	26317
	Basic Rate	52.00							
	Area Weightage 8%	4.16							
		56.16							
20	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead **10 Km** a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. **2.00** Tonne/Km b)Average earth of work **1.28** Tonne/Km for Rs. **2.00**/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. **62.20** (P.150, I.no.18.57/1, PWD SR 2013-14)	Cum							
	Qty Vide Item No=1						538.80	72.70	39170.00
	Qty Limited to						538.80	100.35	54071.00
	Basic Rate	25.60							
	Loading and Unloading Charges	67.32							
		92.92							
	Area Weightage @ 8%	7.43							
	Total	100.35							
21	Miscellaneous and unforseen Charges								1251
								Total	9900000

(Rupees Ninetynine Lakhs Only)

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2013-14
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S
ನಂ. JC(DH)AS 161/29/13-14 ದಿನಾಂಕ: 19/08/13
ರೂ. 99.00 lakhs (Rupees ninety nine lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
Page No. 207
SL. No. 161
ಮುಖ್ಯ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಆ.ತಾ.ಸ್ವೀ.ಸಂ ಕ/216/11-12, ಪ: 01/05/2012
ಅಂತೆ.

ನಂ. 13/13-14 ದಿನಾಂಕ: 21/08/2013
ರೂ. 99.00 ಲಕ್ಷಗಳಿಗೆ (ರೂಪಾಯಿ ತೊಂಭತ್ತೊಂಬತ್ತು ಲಕ್ಷಗಳು ಮಾತ್ರ)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಧೀಕ್ಷಕರು
ಬೃ.ಬೆ.ಮ.ಪಾ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.